(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date27 January 2005 (27.01.2005)

PCT

(10) International Publication Number WO 2005/007716 A1

(51) International Patent Classification7: C08J 3/22, D01F 8/04, A61L 15/16

n⁷: C08F 255/02,

(21) International Application Number:

PCT/US2004/022325

(22) International Filing Date:

9 July 2004 (09.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/486,526

11 July 2003 (11.07.2003) US

- (71) Applicant (for all designated States except US): DOW GLOBAL TECHNOLOGIES INC. [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ALLGEUER, Thomas, T. [AT/CH]; Felsenrainstrasse 7A, CH-8832 Wollerau (CH). KATZER, Karin [AT/CH]; Seestrasse 187, CH-8810 Horgen (CH).
- (74) Agent: HOPPE, James, T.; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).

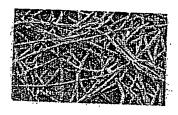
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

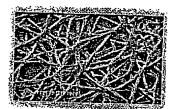
Published:

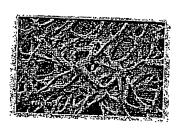
with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR THE MANUFACTURE OF A FUNCTIONALISED POLYOLEFIN, FUNCTIONALISED POLYOLEFIN, BICOMPONENT FIBER, NONWOVEN AND HYGIENIC ABSORMENT PRODUCT







275°F

300°F

325°F over-bonding

(57) Abstract: The invention relates to a method for the manufacture of a functionalised polyolefin by free radical grafting of a polyolefin with a monomer in the presence of 0.5 to 25 weight percent, based on the total weight of polyolefin and monomer, of a propylene polymer and/or copolymer comprising a free radical initiator distributed therein.